

THERMAL BARRIER COATING HAVING A HEAT RADIATION ABSORBING TOPCOAT

ABSTRACT

Coating systems suitable for protecting components exposed to high-temperature environments, such as the hot gas flow path through a gas turbine engine. A multilayer thermal barrier coating (TBC) system characterized by a low coefficient of thermal conductivity and having a heat-absorbing topcoat comprised of the thermal decomposition product of at least one metallic element and at least one ceramic precursor binder component.